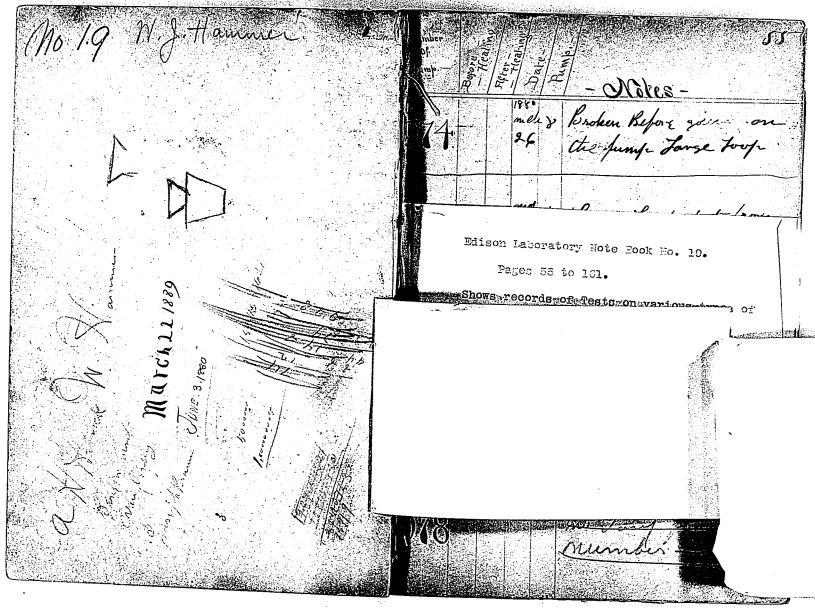
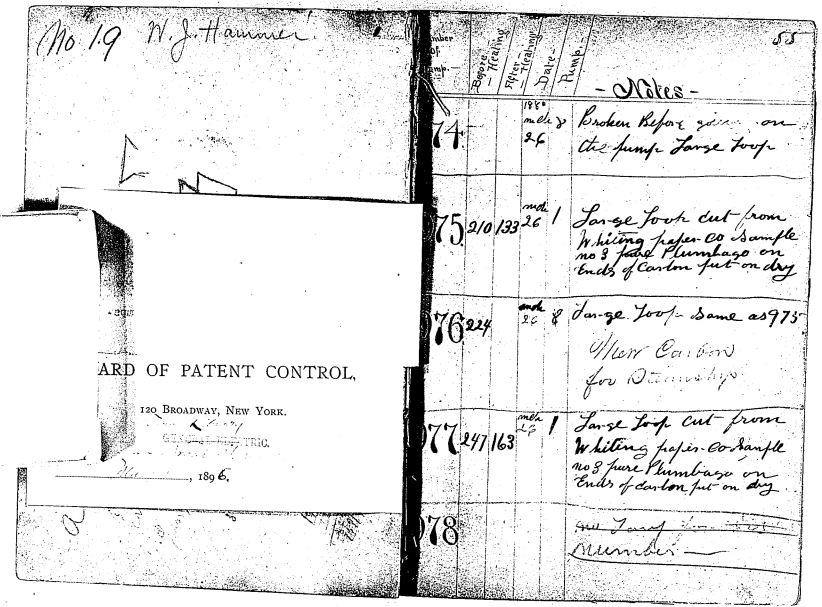
Menlo Park Notebook #19 [N-80-03-26]

This notebook covers the period March-July 1880. Most of the entries are by William J. Hammer. Some are by Charles Batchelor. Some entries may also be by Francis Jehl and Charles Flammer, whose names appear as witnesses. Most of the material relates to tests on experimental lamps, numbers 974 to 1323. There is also a drawing on the inside back cover of a Japanese bamboo filament lamp. Related material can be found in Menlo Park Notebook #41. The label on the front cover is marked "From No 974- Electric Lights." The book contains 276 numbered pages.

Blank pages not filmed: 150-159, 162-171, 174-209, 212-249, 252-256, 273-275.

Missing page numbers: 1-54, 257-272.


No 19 N. J. Hammer
March 11 1889
June 3, 1890
Notes
Edison Laboratory Note Book No. 10.
Pages 55 to 101.
Shows records of Tests on various
Number


No 19 W. J. Hammer

55

Paper Heading	Fifty Heading	Date	Page	- Notes -
		188 mch 24	y	Broken Repeat given on the jump Large loop
975	2/0/133	mch 26	1	Large Loop cut from Whiting paper Co sample no 3 pure Plumbago on ends of Carbon put on dry
976	224	mch 26	8	Large Loop - Same as 975 New Carbon for Remainder
977	247/163	mch 27	1	Large Loop cut from Whiting paper Co sample no 3 pure Plumbago on ends of carbon put on dry
978				New Loop Remainder

ARD OF PATENT CONTROL,

120 BROADWAY, NEW YORK.

TRIC.

, 189 6.

Mud—

1274
1275
1276
1277

Number of Vamp.	Before Heating	After Heating	Date. 1911	Notes.
979.	253		mch 26	8. Large Loop. Same as 976
				New Carbon for Steamship
980.	2300		mch 26	4 manilla fibers Broke at the first heating
981.	257		mch 27	Large Loop. same as 979
982.	214		mch 27	Large Loop. the same
983.	244		mch 27	Large Loop. the Same

Number of Jump	Before Heating	After Heating	Date of Test	Remarks
984	274	27		Largest Jump that Same 23 9/32 Manilla Fibre 2 in Long .005 Thick Card-Clamp small size
985.		22		Manilla fibre 2 1/2 in long Carbon broken by taking off press.
986.	416	22	6	Manilla fibre 2 1/2 in Long Broken by Last Jump while Heating
987.				Manilla Fibre
988.				Manilla Fibre

60

61

Number of Lamp.	Before Heating	After Heating	Date	Pump	Notes
989.					Manilla Fibre
990.					Manilla Fibre with Cork Clamps
991.					Manilla fibre with cork clamps on 2nd
992.					Manilla fibre Heavily charged with 206
993.					Manilla fibre Heavily charged with 206

Number of Lamp	Bygone Reading	Present Reading	Date	Remp.	Notes
994.					Manilla Fibre Oak Clamps oak connection rod clamps sealed off the pumps.
995.					Manilla Fibre Oak Clamps with ring wedge clamps
996.					Manilla Fibre - Oak Clamps - Plat Clamps Cont. 204
997.					Manilla Fibre Holly Clamps New Chadwell Brace reg Clamps.
998.			8	4	Manilla fibre oak clamps

64

65

Number of Lamps	Before Hearing	After Hearing	Date	Purch.	Notes
999.		5			Manilla fiber oak clamps
1000.					[illegible] long cylinder
1001.					Manilla Fiber Oak Clamps reg. platina clamp put in long tube
1002.		10	/		Manilla fiber oak clamps long globes
1003.		10	/		Manilla fiber wood clamps long globes

Number of Damps.	Before Healing	After Healing	Date	Pump	Notes
1004.					Broke at clamps Inboard Clamps.
1005.					Repaired clamps. Two Fibers - 1 fiber broke just previous to healing other still good
1006.					Meridian Fiber at canon broke at clamps Measured Very fine eight - Inches Electric High Vacuum
1007.		14 AW			High Vacuum all correct - 1 two fiber
1008.					1 Loop made of grain wood part - the Redstone Clamps Cent 233

Number of Lamps	Before Hearing	After Hearing	Date	A.M. or P.M.	Notes
1009.					1 Lamp marked Queen Mark but is old style clamps Cash 2.33
1010.					White Holly 2 lamps put in old style Clamps Cash 2.25
1011.					En Dr Moses pump broken while heating
1012			14	2	Wood steamed Jones Mode before [illegible] Night Vacuum
1013.			14	2	First wood Vacuum in fire Lamps burned Hearing 2 h on pumps Vacuum did not hold

Number of Lamps	Before Heating	After Heating	Date	Remp	Notes
1014.					~~Pine Knots~~ 2 Loops Gum wood cut by Dean
1015.					~~2 Loops~~ Gum wood cut by Dean 2 sheets of manila paper between each Loop Number each when cut.
1016.					Pine Cedar Cord same as 1014 & 1015
1017.					Same as 1016
1018.					Peach wood same cord as 1014 ~~1015~~ Broke glass heating on mump by ft.

72

73

Number of Lamps.	Before Reading	After Reading	Date	Pump	Notes
1019.					Amaranth Wood same cuts, as 1014 & 1015
1020.					Same as 1019
1021.					Maple Wood same cuts, 1014 & 1015
1022.					Same as 1021
1023.					Black Walnut Same as 1014 & 1015

Number of Damps	Before Hearings	After Hearings	Date	Damps	Notes
1024.					White Woolly 1st stage Damp Broke while Printing
1025.					Same as 1024
1026.					New Paper New Horseshoe mould.
1027.					New Horseshoe mould Paper —
1028.					New Paper New Horseshoe mould —

1029 New Paper
New Horseshoe
Mantle

1030 Same as 1029

1031 New Paper.
New Horseshoe
Mantel

1032 Same

1033 Broken on pump while
heating Same

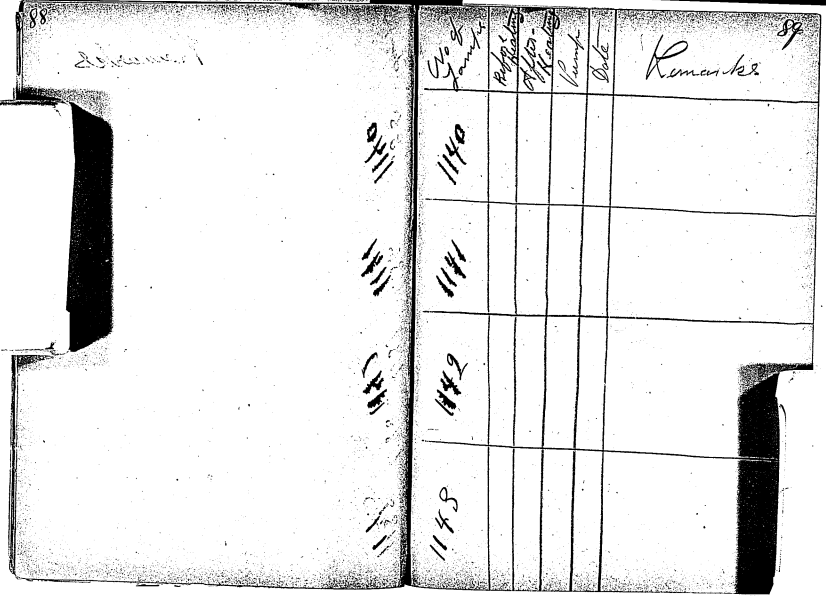
78

~~1112 Institute Road~~

Several hundred
dumps were posted
subsequently (Standard Notice) by
not received except
Special ones
by Forman
with Sealed
Warrants

		Remarks
1185	1240	Cro of Lamps
1186	1241	
1187	1242	
1188	1243	
1189	1244	

Diagram


No. of Sample
Analysis Asked
Analysis Received
Sent
Date
Remarks
1140
1141
1142
1143

No of Samples	Reported	Date Received	Examined	Result	Remarks
1144					Bass
1145					Bass
1146					Bass
1147					Bass fishes - Broke carbon after 2 hours BG TAF

92

Work No		Date	Remarks 93
1148		June 18	Bass fibes- Brake on the pump- H.V
1149		18	Same. Brake on the pump H.V
1150		18	Same Brake on the pump H.V
1151		18	Large Bass Fibes- are formed in the clamp
1152		18	Same as 1151

No. Slide			Date	Remarks 95
1115-5				Bass Fibers - Large Large With Glass Between the Carbon
1115-4			June 18	Bass fibers - Small
1115-3			June 18	Large Bass Fibers - With glass Between the Carbons Bad Spots on the Carbon
1115-6			19	Bass Fibers - Regular.
1115-7			19	Bass fibs - Regulars.

No Yards			Lots	Remarks
1158			99	Regular High Bass fibers.
1159			19	Regular High Bass Fibers-
1160			21	Small Bass fibers- Broke on the first Heating
1161				
1162			21	Bass fibers Regular- Broke at the first Heating

No Lamps			Date	Remarks
1163			21	Bass fibers - Regulas. Crack in the carbon close to the Clamps Sealed at the Clamps
1164			21	Bass fibers - Regulas.
1165			June 21	Bass fibers - Regulas - Broke at the fibers - heating
1166			23	Bass fibers - Regulas -
1167			23	Bass fibers - Regular

No of Jaws			Class	Remarks
1168			23	Bass fibes- Regular
1169			24	Bass fibes- Regulars- are formed at the Clamps
1170			12	Bass fibes- small Jaws Clamps
1171			22	Bass fibes- small short Clamps
1172			22	Bass fibes small short Clamps

Old Limit			Date	Remarks
1178			23	Bass fibes- Regulas- light
1174			23	Bass fibes- Regulas-
1175			23	Bass fibes- Regulas Shut- in the Carbons Close to the Clamps NG
1176			23	Bass fibes- Regulas are at the clamps and Close the Carbons NG
1177			23	Bass fibes- Small- Lamps

No of Lamp			date	Remarks
1178			23	Bars fibres small carbon in Long Lamp
1179			23	Bars fibres small carbon in Long Lamp
1180			24	Bars fibres Regulas-
1181			24	Bars fibres Regulas-
1182			23	Bars fibres small

No. of Form	Kind of Work	Date	Remarks
1183		28	Bars files - small
1184			~~Bars files~~
1185		24	Bars files - Regulars
1186		24	Bars files - Regulars
1187		24	Bars files - Regulars - Covered with plumbago

1188 June 24 Bass fibes. Regulas-

No.				date	Remarks
1189				24	Bass fibes. Regulas-
1190				24	Bass fibes. Regulas-
1191				24	Bass fibes. Regulas-
1192					Regulas. Bast fibes-
1193					

No Yards			Date	Remarks
1194			Same 26	Bass fibes - small G. Hill
1195			26 Same	Bass fibes small
				same
1196			Same 26	Bass fibes small
				same
1197			26 Same	Bass fibes small
				same
1198				

112

1274

Three Years of Grace

Lands to Abut Church Court

Rest Common in Other Words

Hamm

W. Hammond

Lamps Exhausted of Oil

1269 Corn June 14 15 16

Barn fitten disposed in Shutters

Colyton of Common

No effects same order

as all the amounts

June 15

1270 Barn fitten Shutters

same as 1269 in effects height

same order as all amounts

June 15

1267 Bristles goon as to

comment on did not-get

part of the custom mount

mute June founder

June 15

1268 No effects 100 Mr. Ne.

slightly slow in the high

Start-June 1950

1271 Hyd Z ~~Fav norm 200~~ 100 mm m
Spots

June 16 1880

1273 Barnsley Pikes ~~as~~ chalk
Hyd rec Cairnmuir 100 m m
Fothe circ slight cream

1272 Barnsley ~~Pikes~~ [illegible]
Obs Pit rotation [illegible]
deco. [illegible]
Thin [illegible]

1274 Good [illegible]
slightly [illegible]

1275 Good [illegible]
slightly [illegible]

1276 Barnsley with notch
in it one very bad spot-in

11

11 Part not cut the rest 119

July 17 1880 am

Bamboo With notch cut in one side
1277 High Vacuum 98 [illegible] very good except
water near burgess [illegible] 98 [illegible]

1279 Gave a good Light
no spots from 10.15 to 11.50 am
high Vacuum sealed off

1280 Paper Carbon Had lots
and new Parchment Carbon
Sealed [illegible] a high Vacuum
1.10, 2.45 Pm

1282 [redacted]

Shipley and Andrews York

July 19, 1880

1283 Bamboo fiber.
Broke the carbon as soon as current was put on close to the clamps did not give any light

1285 Bamboo fibers-
no spots it gave a good light Vacuum When sealed off Vacuum 108 one hundred & eight

1286 Bamboo fiber-

gave a good light it had no dead spots in it Vacuum 102

1287 Bamboo Fiber-
no spots it gave a good light Vacuum 107

same as 1286

July 19, 1880

1288 after 2 hrs. High Vacuum
Bass fibre - after 2 hrs. Syrup.
Vacuum 100.

1289 Same as 1288
Gave a good light no specks
Vacuum When sealed off 103

July 20, 1880

1290 Bamboo fibre -
It was very bright - and
one side of the carbon and
had specks in Vacuum When
sealed off 100

1299 Bamboo fibers-
very fine no [illegible] gave
a good light- Pure Iron
Incandescent Filament Vacuum 104

1291 Bass fibers- With Platinum ends of Carbon no Specks
[illegible] gave a good light
Vacuum [illegible] 112

1292 Bass fibers-
Several Bad Specks in Carbon
Bright Spot in the Centre of the
Carbon and it did not give
very good light Vacuum 104

July 20 1880

1294 Bamboo fibers- no spots in carbon it was very even and gave a good light- after it Burnt for about half an hour- found out that the carbon was split in the Clamp-

July 21 1880

1295 Bamboo fibers- there was some bad spots in Carbon as marked here

Vacuum when sealed of 105-

1296 Bamboo fibers- it gave a good light-

Vacuum when sealed of 109

Tuesday July 21. 1880

1298 Bamboo fibers.
Other Was carred [illegible]
One Carbon Vacuum When sealed
off 10½

1800 Bamboo Fibers.
one side of the Carbon Was
dark and the other - Light-Red
Vacuum When sealed off 10½-

~~10 Red Beauties~~

C N G

1311 Real Bamboo fiber - very even no split in Carbon after it Burnt [illegible] one four-fourth [illegible] other Carbon Was Split in the Clamp

Vacuum 112

1312 Real [illegible] one side of the [illegible] is a little [illegible] the other - after it Burnt four O. and are [illegible] and that the Carbon Was Split in the Clamp

Vacuum 112

1301 Bamboo 12X12 Regular
oxygen no spots in the Carbon
after it Burned for about one
hour found out the Carbon
was split in the Clamp
Vacuum 112

1302 Bamboo 12X12 Regular
sealed up there was a Crack
in one in side glass could
not get a Vacuum

1310 Japanese Bamboo fibre
Bad spots in Carbon as
marked there was a
split in Carbon in the Clamp
it did not show the split visible
it Burnt for about 2½ minutes
high current - Vacuum 112

134

March 26 1884

July 22/1880 135

Japanese Bamboo 1314
Broke the carbon as soon
the current was put on
did not give any light High
Vacuum

1313 Japanese Bamboo Flat
Broke as soon as current
was put on did not
give any light

1305 Bamboo Regulas.
w/ 3 small splits in the
B. Rome of paper and gave
a bright light on the bottom
of carbon Vacuum 112

July 22 1880

1304 Bamboo fibers

Several Bad shots in the Carbon But it gave a Bright Blue Light Blue Vacuum 114

July 23. 1880

1316 amaranth Wood

the carbon [illegible] which gave a Bluish Blue very Plain Vacuum 104

1307 Bamboo Fiber 12 X 12

[illegible] no Splits after it burned for about 2 minutes from the Carbon Split in the Clamp it gave a Bright Light Vacuum 114

Chas F. Hammer.

July 23.1880

1308 Bamboo fibes. 12X12
no spots it gave a good light
Slightley Blue Vacuum 112

1309 Bamboo Fibes-1
no spots gave a good
light-
Slightly Blue

Vacuum 110

1310

See page 133

July 23 1880

1311

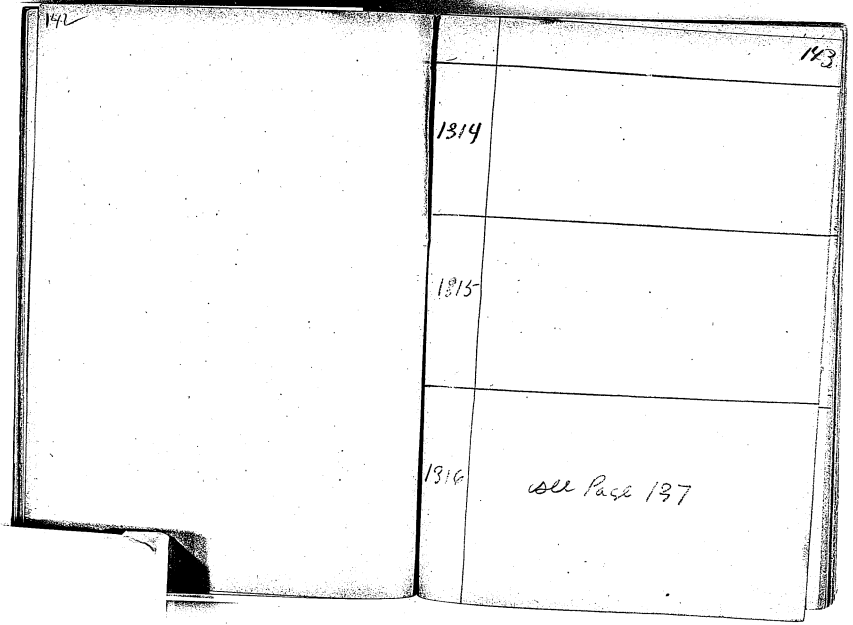
See Page 131

1312

See Page 131

1313

See Page 135


142

143

1914

1915

1916

see Page 137

144

July 29 1917	ordinary Bamboo no spots gave a good light has a slightly Blue VACUUM 112
July 24 1918	amaranth 12X12 Bad spots in the Carbon showed the Blue very Plain at the Clamps Sealed of Both Legs Vacuum
July 24 1919	White Hollis Bad spots in the Carbon and gave a Poor Light Vacuum 103

Mercury B

July 24 1890

July 24 1890
White Holly
Bad Spots in Carbon
& Showed Blue
Plains from the Clamps
and Carbons Vacuum

July 24 1891
TULIP. WOOD. 12X12
Broke on the Clamp
by the mercury
Running in the Lamp
Vacuum

July 24 1892
Bamboo Fiber
no spots it gave a good
light it was
Slightly Blue
Vacuum Blown Accidently

148

149

July 24 1923 Brass fibes - one [illegible] Clamp but it Gave a Bright light

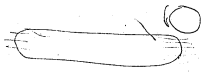
1924

1925

July 23. 1880.

1241 Bars Fibers.
Bad Spots [illegible]
and did [illegible]
[illegible] Vacuum 110

July 24 1880
1239 Bars fibers- Extra
no spots let pass
a good light
Vacuum When sealed 110



John D. Daley
Kilkenny

276

72
187
116
152

477
44

521
296

817

Japanese Bamboo Pillow

K

Bamboo pillow.
Part of
[illegible] Tamil
Column of the
Pillow of Rama

Column Headpiece

1

1/8
1/2
1/6